

App. Serial No. 10/535,297
Docket No.: AT020067

In the Claims

1. *(Previously presented)* A membrane for an electroacoustic transducer, which membrane is designed to be capable of vibration with respect to a membrane axis, and which has a first membrane side and a second membrane side, and which has a middle area,

wherein a central cup-shaped depression is present in the region of the membrane axis, which depression is bounded by a cup bottom wall and is open towards the first membrane side,

wherein the membrane has stiffening grooves in its middle area which stiffening grooves extend substantially parallel to radial directions, and

wherein at least two stiffening grooves of said stiffening grooves extend up to the depression .

2. *(Previously presented)* A membrane as claimed in claim 1, wherein all stiffening grooves are open towards the second membrane side.

3. *(Previously presented)* A membrane as claimed in claim 1, wherein the depression has a connecting channel, which connecting channel is open towards the second membrane side and leads into the two stiffening grooves that extend up to the depression.

4. *(Previously presented)* A membrane as claimed in claim 1, wherein the stiffening grooves are angularly regularly spaced in circumferential direction.

5. *(Previously presented)* A membrane as claimed in claim 1, wherein the stiffening grooves are arranged in at least two groups of stiffening grooves, such that the stiffening grooves of a first group extend up to the depression, and the stiffening grooves of a second group terminate before reaching the depression.

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6. *(Previously presented)* A membrane as claimed in claim 1, wherein the stiffening grooves extend with their ends facing away from the depression up to an annular intermediate portion of the membrane.

7. *(Previously presented)* A membrane as claimed in claim 1, wherein the stiffening grooves extend linearly.

8. *(Previously presented)* A membrane as claimed in claim 1, wherein the stiffening grooves each have groove side walls which are substantially parallel to one another.

9. *(Previously presented)* A membrane as claimed in claim 1, wherein the stiffening grooves have a substantially U-shaped cross-section.

10. *(Previously presented)* A membrane as claimed in claim 1, wherein the connecting channel has a cross-section smaller than the cross-section of the stiffening grooves.

11. *(Previously presented)* An electroacoustic transducer having a membrane, wherein the transducer is provided with a membrane as claimed in claim 1.